

Between The Lines

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- AL Climate Survey

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NNSA Acting Administrator Talks Reengineering

Acting NNSA Administrator Linton Brooks talked about the NNSA reengineering effort during a videoconference with employees July 23.

Brooks said the goals of reengineering are to do several things...one of which is to make the organization more effective. He said we would accomplish this by eliminating layers and duplication of work.

He said NNSA is closing in on the details of the structure for the site and field offices and expects

most of it to be done in the next few months. He said the need now is to work out where the people will be needed and how many we will need.

He stressed we need to make sure we have the right people in the right jobs which means there will be some directive reassignments.

Brooks said we want to take the right approach, which is to do what is best for our employees rather than just cutting. "Even though it has been really



tough for the field folks," Brooks said, "we have been encouraged by the positive attitude of the folks from the site and field offices in response to the reengineering effort."

"What we are doing is changing a culture that has been in place for decades and that is going to take time." ♦

Dept. Of Homeland Security & NNSA/DOE



This week the House passed legislation approving the new Department. It now moves to the Senate where it will be debated.

The proposed department would have nearly 170,000 employees, and a budget of \$37.4 billion.

Manager John Arthur passed along information about the proposed Department of Homeland

Security, during an AL employee meeting July 26th that he received during a senior staff meeting in Headquarters.



Arthur said the new Department is looking at a shared laboratory structure with each lab playing a role and with a lot of synergy of assets. He said the Department of Homeland Security would be a high priority customer

and will require an administrative structure within DOE/NNSA to support it. Arthur has appointed AL Senior Bioscience Advisor John Olav Johnsen as the AL point person for Homeland Security.

Meanwhile, in his address to employees at Argonne National Laboratory July 22, President Bush said the Department of Homeland Security would foster a new culture throughout the government, one that emphasizes cooperation

(Cont. Page 2 Homeland Security)



Office of Kansas City Site Operations Director Beth Sellers, (left), watches as Secretary of Energy Spencer Abraham and Senior Policy Advisor Paul Longworth learn about some of the Kansas City Plant's capabilities.

Technology on display for Secretary Abraham

Micro-miniature enhancing weapons technologies, Plant.

reservoirs supporting limited life components and trailers equipped to securely transport components are a few of the sights Secretary of Energy Spencer Abraham took in during his visit to the Kansas City Plant on July 1.

Abraham took the opportunity to meet associates and thank them personally for their efforts as he toured the

"The work you do here is absolutely essential and very impressive," Abraham said. "The performance metrics achieved by your facility, while producing 85 percent of the parts for our nuclear weapons stockpile, makes you a model for the complex."

Abraham said seeing the inner workings of the facility confirmed what he had heard from others about the Kansas City Plant's immense technological

capabilities and its reputation for providing intricate top-quality products to the nuclear weapons complex.

"This facility has been performing work for the Department of Energy for more than 50 years and has compiled an incredible record," Abraham said during an all-employee broadcast. "The model this plant works with is turning science into reality and that's clearly what happens here." ♦

Texas State Senator Meets New Constituents



State Senator Duncan (Center) stops for a photo with OASO Manager Dan Glenn (Left) and BWXT Manager Dennis Ruddy.

Texas State Senator Robert Duncan visited the Pantex Plant June 18th to meet some of his new constituents and get familiar with one of the area's largest employers.

Duncan said he has always been interested in Pantex and was impressed with the professionalism of the people who work at the site.

"I support what you do

here, and I will support you in issues that arise when I have that opportunity," Duncan said.

"This is the beginning of a mutually fruitful and beneficial relationship," said BWXT Pantex President and General Manager Dennis Ruddy. "We will be working closely with Senator Duncan to make sure he understands the economic

impact and environmental issues that may affect Pantex."

Duncan requested the briefings to get acquainted with Pantex and better understand the plant's mission.

A town hall meeting was also held for employees to ask questions and get to know their new legislator. ♦

Homeland Security (From Pg. 1)

and working together on behalf of the American people.

"We will rely upon the genius and creativity of the American people," Bush told employees. "And that's why I'm here, to look in the eyes of those who possess the genius and the creativity of the American people."

"I've just come back from



viewing some demonstrations of the great work done at the national laboratories, whether it be here, or Los Alamos, or Sandia or

others. The American people need to know we've got a lot of brain power working on ways to deal with the threats that we now face as we head into the 21st century," Bush said.

"I want to thank Spence Abraham for his leadership at the Department of Energy, and I want to thank all of you for working for the fine Department of Energy."

If you want to know the latest on what pieces of

DOE/NNSA will be incorporated into the new Homeland Security Office read the July 26th NNSACAST emailed to all employees. ♦



President Bush listens to Hermann Grunder, Director, Argonne National Laboratory

Teaching in the trees

Students from Arizona, Colorado, New Mexico and Texas spent a week at the Los Alamos National Laboratory learning about forest ecology and post-fire rehabilitation as part of the 2002 Summer Environmental Academy.

The Laboratory's Cerro Grande Fire Rehabilitation Project and WERC, a consortium of universities dedicated to expanding resources for addressing environmental issues, sponsored the academy.

This year's academy participants learned the ins and outs of forest rehabilitation with hands-on fieldwork. ♦



At right, Amanda Curtis, a junior from Glorieta, N.M., who attends The Academy for Technology and The Classics in Santa Fe, measures the diameter of a tree within her team's plot.

Forester Laura Paul (in the orange vest) prompts students for an answer during an impromptu classroom session in the woods near the entrance to Technical Area 16. Paul and others taught students and their accompanying teachers how to take a section of forest, evaluate the trees in it, and select trees for later thinning.



Anxious hands hold a measuring tape that defines the boundaries of a student team's plot.



Trees that were not thriving, were too big, too small, had evidence of disease, or just didn't look right, were marked with a yellow ribbon for removal. In the photo left, Troy Turpin, a home-school youth from Tijeras, N.M., decides the fate of a tree in his team's plot as an instructor looks on.



A selected tree is removed from the forest.

Time Off from Summer Vacation to Explore Science

Honeywell held its ninth annual Computational Science and Applied Technology (CSAT) program in June. Kansas City Plant engineers used advanced technology to give 16 high school students' hands-on instruction in scientific concepts during the two-week program.

After a little summertime instruction in math and computer programming, half the students developed a computer program to test the durability of truss structures, such as a steel-beam bridge, while the other half worked on a fiber optics project.

Bill Freeman, a staff engineer at the Kansas City Plant, taught the structural analysis portion of the workshop. Freeman said that the students learned the material quickly, despite being daunted by the projects at first.

"I didn't know what the topics would be, and once I found out, I was a little scared, said Kimberly Stupica. "I didn't know what I was doing, but by the end, I think, because I didn't know anything about the topics, I ended up learning a ton more. When you start without any knowledge, there's a lot of room to learn."

The projects allowed students to work with advanced technology and gain an understanding of the applications of abstract math principles.

"This was an extremely challenging and compressed program," Freeman said. "I taught what ended up being about one-third of a college-level statistics course. It never ceases to amaze me how the kids can be given something this challenging and without fail, every year, buckle down and learn it."

In addition to tackling projects, the students are introduced to various

engineering fields. "I'd never thought about engineering that much—I always just thought of it as a bunch of math," Amy Twite said. "But I'd never seen this side of chemical or electrical engineering before, and they seem really cool. It gives you more to think about." ♦



Engineer Bill Freeman assists a student with a computer-programming project during the CSAT program.

Is Racism Really Dead?



"Racism is more subtle now than before," Elsie Redbird

The AL Black Employment Program sponsored a Lunch-N-Learn discussion entitled "The Color Line Revisited: Is Racism Really Dead" July 16.

AL employees heard views from four panelists on the issue and then were allowed to ask follow-up questions. ♦

AL Employees listen to discussions on racism with panelists during the Lunch-N-Learn session.



Racism Panelists (L-R): Diana Dorn-Jones, Director, United South Broadway, Elsie Redbird, Native American Activist, Diane Denish, Businesswoman and Ted Garcia, General Manager and CEO, KNME TV

Rio Grande Minority Purchasing Council (RGMPC) Conference and Trade Fair



AL's Margaret Cerno and Irwin Fragua, discuss business opportunities with trade fair participants

On July 17-18 the RGMPC held its small business conference and Trade Fair at the Albuquerque convention center. The theme for the conference was: "Opening Doors: Closing the Deal."

The RGMPC, a 501(c)(3) nonprofit corporation, was founded in 1976 and its membership consists of

corporate/governmental buyers as well as minority/women owned vendors.

In past years DOE has actively supported the RGMPC through participation in the annual "Night of the Council of Stars" Award banquet, and Matchmaker Breakfast/Luncheons. ♦



Irwin Fragua answers questions about DOE/NSA Albuquerque opportunities

AL Climate Survey - Great Participation



Do any of these characters look familiar?

How about these phrases?

Good Morning. You have only 10 more working days...There are only seven days left...Only three more Days...Today is the last day...AL's Climate Survey is on the Web.

If they give an award for persistence Don Richer should get two. He really did a great job of making sure you and I had a chance to participate in

the new AL climate survey.

And that persistence paid off – 497 employees, 43% of our workers took the time to fill out the survey.

The information collected will help focus on organizational areas where there may be difficulties and allow for a review of the organization vertically in terms of issues.

The data will give us an idea of the effectiveness of AL leadership and management. It will help us to see how well we as

a community and individually communicate and act on diversity issues and inequities in treatment of others and ourselves in the workplace.

What we learn from the data will help us take the right steps to make AL a great place to work.

Analyzing the data for root cause and proposing solutions is the next step in the process. Results should be ready by the end of August. The results will be briefed to management and employees in September. ♦

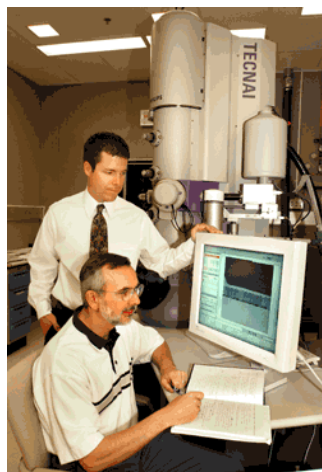
Sandia Research Wins Two R&D 100 Awards

Two Sandia National Laboratories research teams, partnering with private industry won R&D 100 Awards in the annual competition for innovative technology sponsored by *R&D Magazine*.

The Sandia winners invented the Component Analysis Software (Compass), which automatically analyzes the chemistry of a micro- or macrostructure; and the MTR8500 Very Short Reach (VSR) OC-192 Parallel Array Transponder Module, which provides standardized 10-gigabit fiber optic data communications using much lower-cost one-

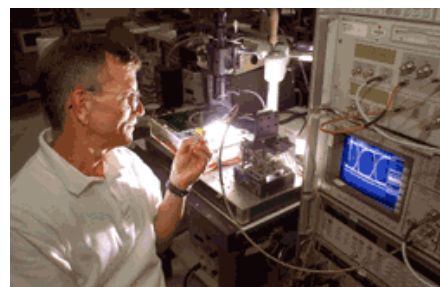
gigabit components by spreading the payload over 12 parallel optical fibers.

"Each of these awards recognizes innovations that are at the frontiers of science applications," said Sandia President C. Paul Robinson. "We have focused on atoms-up engineering for several years now, and the Compass software provides essential information to make this a reality. The revolution in faster information transfer is already benefiting many of Sandia's missions, and the new fiber optic transponder will help advance the information revolution."



Sandia National Laboratories scientists Paul Kotula and Michael Keenan developers of the R&D 100 Award-winning Component Analysis Software (Compass)

Technical experts chosen by *R&D Magazine* select 100 winners of the annual contest. The winning research must not only be original but also show promise of real-world application. The winners will be honored in October in Chicago. ♦



Sandia National Laboratories researcher David Peterson is a member of the EMCORE/Sandia team that won an R&D 100 Award for the MTR8500 Very Short Reach OC-192 Parallel Array Transponder Module

Presidential Award for Los Alamos Team

A Los Alamos National Laboratory research team is the co-recipient of the top small-business category award in the 2002 Presidential Green Chemistry Challenge.

The award recognizes the development of a new and cost effective, environmentally friendly technology that could enable the global integrated circuit industry to achieve its goal of producing increasingly higher-density microchips.

Winners of the annual award, sponsored by the Environmental Protection Agency, are selected by an independent panel of technical experts from the American Chemical

Society and represent innovative ways to significantly reduce pollution at its sources. The award ceremony was held June 24 in Washington, D.C.

The process promises to enable the production of higher-density microchips than can be made today, while eliminating the need for vast amounts of water and many of the hazardous chemicals used in current fabrication processes.

"While the integrated circuit industry is one of the most successful growth stories in history, currently available fabrication technology has built-in limits to growth that

threaten the industry's growth objectives," said Craig Taylor, of Applied Chemical Technology. "A principal limit to growth is existing technology that inhibits the volume production of microchip "feature" sizes smaller than 0.10 microns even though the market for chips is expected to demand a six-fold or greater reduction in size."

Patented by Los Alamos National Laboratory, the technology now available to integrated circuit makers is licensed to SC Fluids, Inc. of Nashua, N.H., which is beginning to market it commercially in partnership with IBM. ♦



A silicon wafer is loaded into a small pressure chamber at the Technical Area 35 Supercritical Fluids Laboratory prior to supercritical carbon dioxide resist removal processing



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Kansas City Plant Visitor's Center Opens

Kansas City Plant's new Visitor's Center has opened its doors displaying some of the facility's unique technologies.

"It visibly captures all of our capabilities and provides an overview to anyone visiting the plant," John Hicks, Manager



Office of Business Partnerships, said. "The Visitor's Center quickly lets

visitors know what we can provide and that encourages new business."

The Visitor's Center captures that history with an audiovisual timeline before leading guests into three areas, which encapsulate the facility's capabilities of today. ♦

Pantex Day of Volunteering

Hundreds of Pantexans blanketed the Panhandle to help area communities during the second annual BWXT Pantex and DOE Day of Volunteering on June 22.

Volunteers worked on 40 projects in Amarillo, Canyon, Clarendon, Claude, Fritch, Groom, Pampa and Panhandle. They painted, planted,

baked, built and found numerous other ways to help their communities.

"Seven hundred people can and do make a big difference in the lives of our neighbors," said Dennis Ruddy, BWXT Pantex President and General Manager.

This is the first year the DOE/NNSA site office has joined Pantex employees in

the volunteering blitz. ♦



NNSA Pantex Site Manager Dan Glenn and family lend a hand

LANL Hispanic Scholarship Fund Career Exploration Day



Undergraduate students and doctoral candidates from colleges around New Mexico, Southern

Colorado and West Texas can learn about career and internship opportunities during the Hispanic Scholarship Fund Career Exploration Day Aug. 8, at LANL.

The Diversity Office and the Education Program Office are sponsoring the Career Exploration Day from 9 a.m. to 4 p.m. in the Bradbury Science Museum downtown.

A World Wide Web page -

<http://set.lanl.gov/hsf/agenda.htm> - has more information about the Career Exploration Day or you may call or email Evelyn Martinez at 505-667-5665, evelyn@lanl.gov

Milestones

Years of Service - July 2002

Albuquerque Operations Office:

John N. Thomas - OTS (10), Gary Buckingham - SSCD (20), Barbara J. Hilton - AFSC (20), Anthony M. Mecca - OTS (20), John M. Morgan - OTS (20), Vina M. Sanchez - WSD (20), John E. Tribou - TDD (25), Andrew J. Zawazski - AFSC (25), Richard L. Devine - OHRT (30), Kiutus Tecumseh - OPA (30)

Office of Amarillo Site Operations:

Gary D. Wisdom (10), Donald G. White (35)

Office of Kansas City Operations:

Mark L. Holecek (10), Andrew H. McCaddin (25), Steven L. DeForest (30), David C. Hampton (30)

Office of Los Alamos Site Operations:

David R. Gregory (20)

AL Join-A-School Programs' Annual Book Drive



It's that time again; for the AL Join-A-School Program's Annual Book Drive. Your used and new **Books, Magazines, Software, Games, Puzzles, CDs, DVDs, Videos, Records, Audio tapes, Audio books,** are worth their weight in **gold** in support of AL's Join-A-School Program.

Money generated from your donations provides funding for student award incentives; school supplies; books; and other educational related items for students at Jackson Middle School.

Your used and new items are needed and will be collected through **September 2002.**

Collection boxes are located in **Buildings 388 and 392, at the North and South Gates, and Mod 3 in the South Campus at the AL building complex. An additional collection box has been placed at the Office of Kirtland Site Operations.**